BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT KENCHENAHALLI VILLAGE NEAR OHT TANK WARD NO.02 OF YELAHANKA SUB DIVISION

						Estimate Cost Rs.	21.00	Lakhs
Description of Item	**Unit**	**No.**	**L**	**B**	**D**	**Qty.**	**Rate**	**Amount**
KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
	Cum							
Entrance Road of Prakruti Lyt		1	172.00	5.00	0.35	301.00		
				Total Qty		**301.00**	184.73	**55603.00**
Basic Rate	157.00							
AD-HOC 11%	17.27							
Sub-Total	174.27							
Area Weightage @ 6%	10.46							
Total	**184.73**							
KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)KPWD S.R 2016-17								
Prakruthi layout	Cum							
for Drain		1	130.00	0.80	0.90	93.60		
				Total Qty		**93.60**	222.38	**20814.52**
Basic Rate	189.00							
AD-HOC 11%	20.79							
Sub-Total	209.79							
Area Weightage @ 6%	12.59							
Total	**222.38**							
KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
	Cum							
				Qty Vide Item No.1+2		**394.60**	111.00	**43801.00**
Average Weight of Earth 1.28 Tonne/Km								
Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
Add loading and unloading Item No 17.1)	68.00							
Sub-Total	100.00							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
AD-HOC 11%	11.00							
Total	**111.00**							
KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
Prakruthi layout	Cum							
for Drain		1	130.00	0.80	0.15	15.60		
				Total Qty		**15.60**	5726.51	**89333.59**
Basic Rate	4867.00							
AD-HOC 11%	535.37							
Sub-Total	5402.37							
Area Weightage @ 6%	324.14							
Total	**5726.51**							
Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300kgs. with 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500, 1700, 2200. -do- Wall and bottom thickness 15cm (P.No.265 / It.No.37.59.2)								
for Drain	Cum							
bed		1	130.00	0.80	0.15	15.60		
side wall		2	130.00	0.15	0.60	23.40		
				Total Qty		**39.00**	12246.05	**477596.06**
Basic Rate	10408.00							
AD-HOC 11%	1144.88							
Sub-Total	11552.88							
Area Weightage @ 6%	693.17							
Total	**12246.05**							
KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)								
	tonne							
	60% of Qty Vide item No.5				in Qtl	23.400		
					in tonne	**2.340**	71310.20	**166865.86**
Basic Rate	60607.00							
AD-HOC 11%	6666.77							
Sub-Total	67273.77							
Area Weightage @ 6%	4036.43							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Total	**71310.20**							
Pro ing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
covering slab	Sqm							
		1	130.00	0.75		97.50		
				Total Qty		**97.50**	2100.00	**204750.00**
Data Rate	**2100.00**							
KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (P.No.155 It.No.20.4.2)								
	Cum							
Entrance Road of Prakruti Lyt		1	172.00	5.00	0.10	86.00		
				Total Qty		**86.00**	1848.44	**158966.00**
Basic Rate	1571.00							
AD-HOC 11%	172.81							
Sub-Total	1743.81							
Area Weightage @ 6%	104.63							
Total	**1848.44**							
SRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, preading and compacting graded stones aggregate to wet mix macadam pecifications including pre mixing the material with water at OMC in mechanical ix plant carriage of mixed method of tipper to site, laying in uniform layers with aver in sub-base/base course on well prepared surface and compacting with bratory roller to achieve the desired density complete as per specifications. IORTH Specification No. 406 (P.No.158 I.No.20.18)								
	Cum							
ntrance Road of Prakruti Lyt		1	172.00	5.00	0.15	129.00		
				Total Qty		**129.00**	1962.57	**253171.00**
Basic Rate	1668.00							
AD-HOC 11%	183.48							
Sub-Total	1851.48							
Area Weightage @ 6%	111.09							
Total	**1962.57**							
oviding and applying primer coat with ss bitumen emulsion on prepared rface of granular base such as WMM including clearing of road surface and praying primer at the rate of 0.60 kg/sqm using mechanical means complete as er specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
	Cum							
Entrance Road of Prakruti Lyt		1	172.00	5.00		860.00		
				Total Qty		**860.00**	30.59	**26309.00**

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Basic Rate	26.00							
AD-HOC 11%	2.86							
Sub-Total	28.86							
Area Weightage @ 6%	1.73							
Total	**30.59**							
KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)								
	Cum							
Entrance Road of Prakruti Lyt		1	172.00	5.00	0.050	43.00		
				Total Qty		**43.00**	6976.06	**299971.00**
Basic Rate	5929.00							
AD-HOC 11%	652.19							
Sub-Total	6581.19							
Area Weightage @ 6%	394.87							
Total	**6976.06**							
KSRRB 500-7:Providing and **applying tack coat with bitumen emulsion** using 0/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 0 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of oad surface) including cost of all materials, labour, HOM of Machineries omplete as per Specifications.(P.No.160 & I.No.21.7)								
	Sqm							
ntrance Road of Prakruti Lyt		1	172.00	5.00		860.00		
				Total Qty		**860.00**	12.94	**11131.00**
Basic Rate	11.00							
AD-HOC 11%	1.21							
Sub-Total	12.21							
Area Weightage @ 6%	0.73							
Total	**12.94**							
SRRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP pacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed gregates of specified grading premixed with 6% VG 30 grade bituminous nder and , transporting the hot mix to work site , laying to the required level d grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve e desired compaction as per MORTH Specification clause No.500.9 complete all respects complete as per specifications MORTH Specification No.509 .No.164 Item No.21.22.6)								
	Cum							
ntrance Road of Prakruti Lyt		1	172.00	5.00	0.040	34.40		

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Basic Rate	6683.00			Total Qty		34.40	7863.22	270495.00
AD-HOC 11%	735.13							
Sub-Total	7418.13							
Area Weightage @ 6%	445.09							
Total	**7863.22**							
KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.181 & I.No.24.15)								
	Sqm							
		2	172	0.10		34.40		
				Total Qty		34.40	515.35	17728.00
Basic Rate	438.00							
AD-HOC 11%	48.18							
Sub-Total	486.18							
Area Weightage @ 6%	29.17							
Total	**515.35**							
Miscellaneous and unforeseen charges	LS							3465.00
						Grand Total Amount		2100000.00
(Rupees Twenty One Lakhs Only)								

IFICATE

The site has been inspected and the work is found to be necessary.
The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
The provisions were made in this estimate are necessary and adequate.
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
This work is not repeated in any other programs or Grants

Assistant Engineer
Ward No.02

Executive Engineer
Yelahanka Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

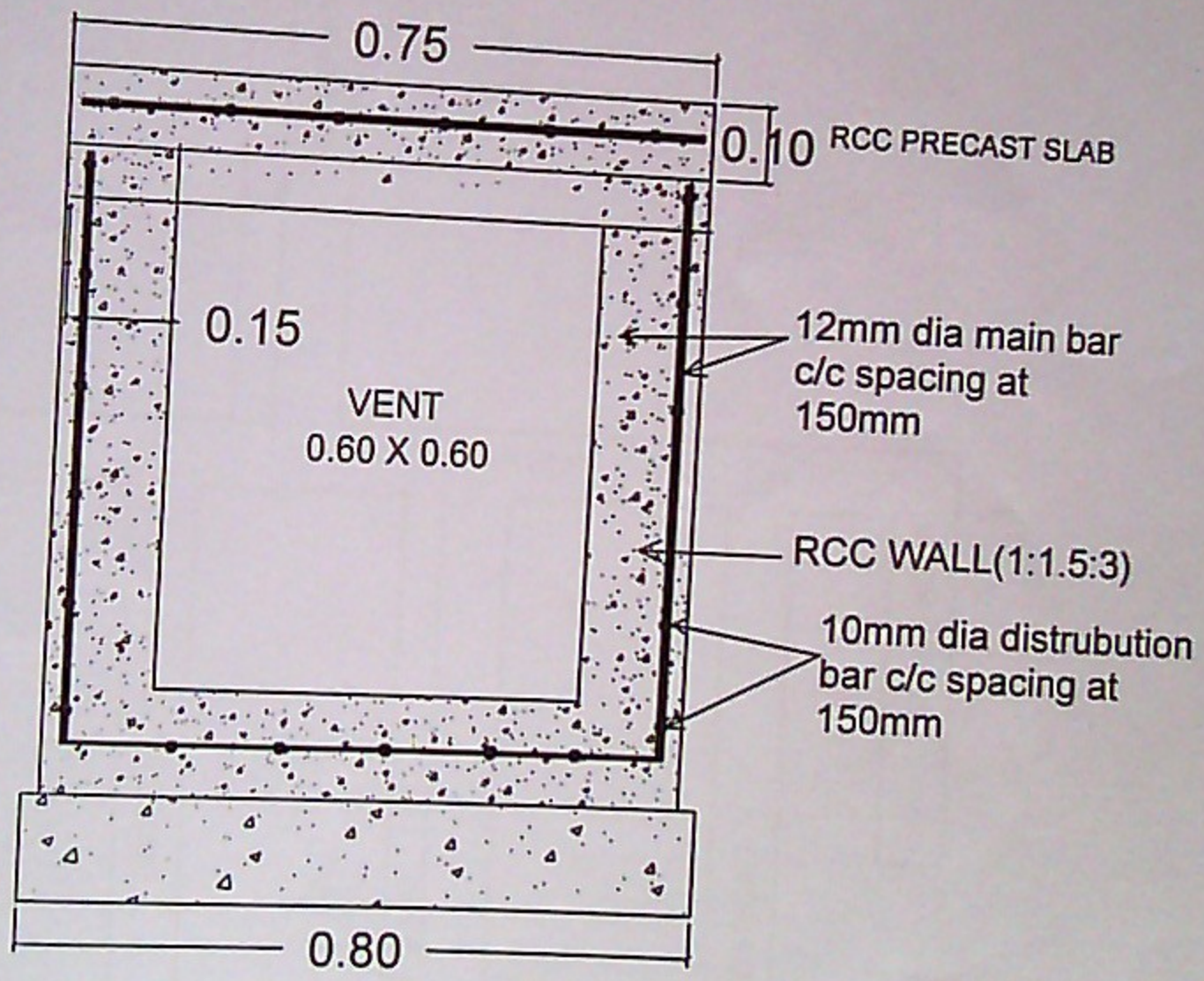
Administrative Approval
Accorded For PON-2017-18 Rs: 21.00 lac
Head of A/C P:1771
CER NO :242 Dt:08-02-2018

TA CE (YNK)

Technical Sanction
Accorded For 21.00 lakh Rs
Head of A/C P 1771
CER NO :662 Dt:16.02.18

TA CE (YNK)

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT KENCHENAHALLI VILLAGE NEAR OHT TANK IN WARD NO.02 OF YELAHANKA SUB DIVISION



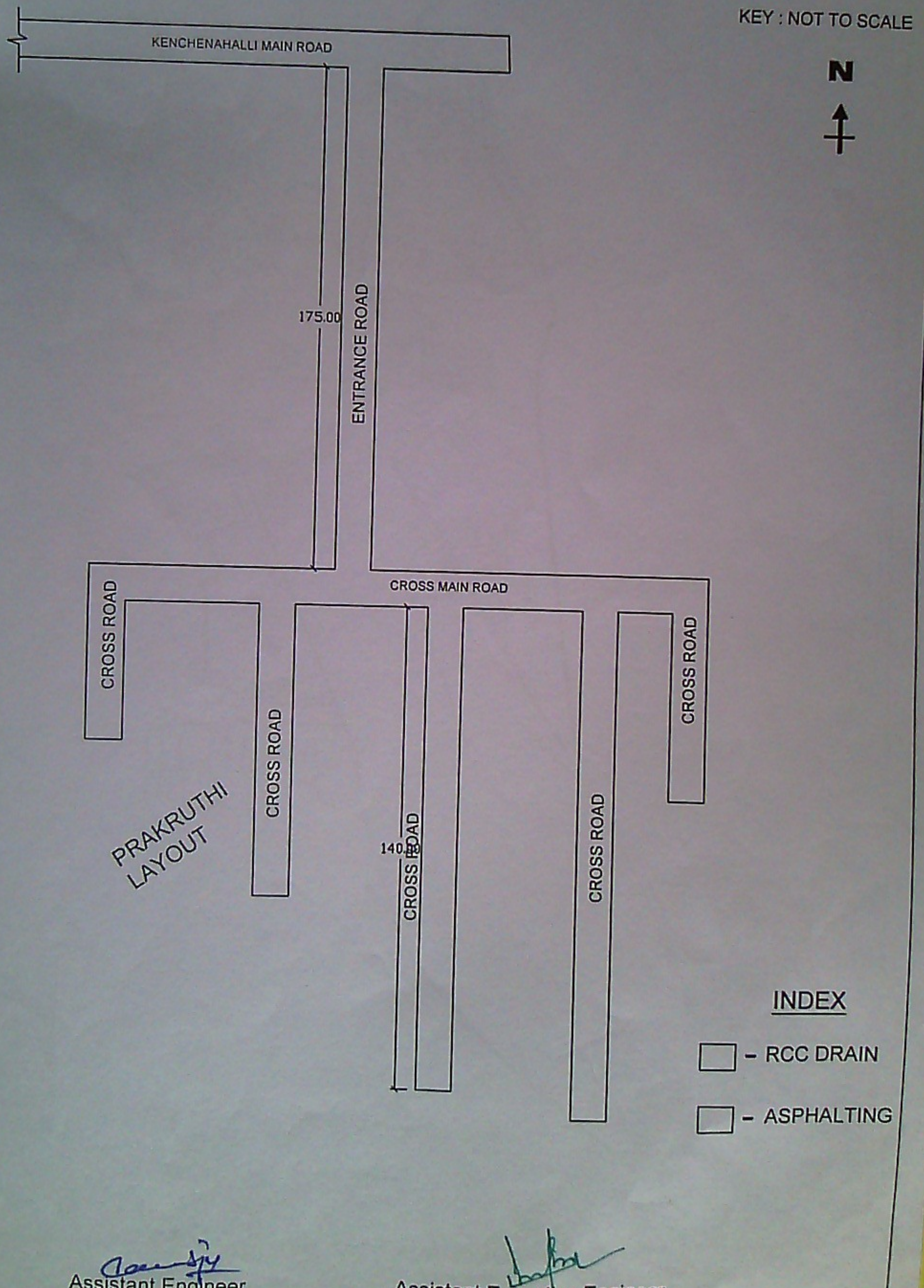
TYPICAL CROSS SECTION OF RCC DRAIN

AE-02

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

NAME OF WORK: IMPROVEMENTS TO ROADS AND DRAINS AT KENCHENAHALLI VILLAGE NEAR OHT TANK IN WARD NO.02 OF YELAHANKA SUB DIVISION

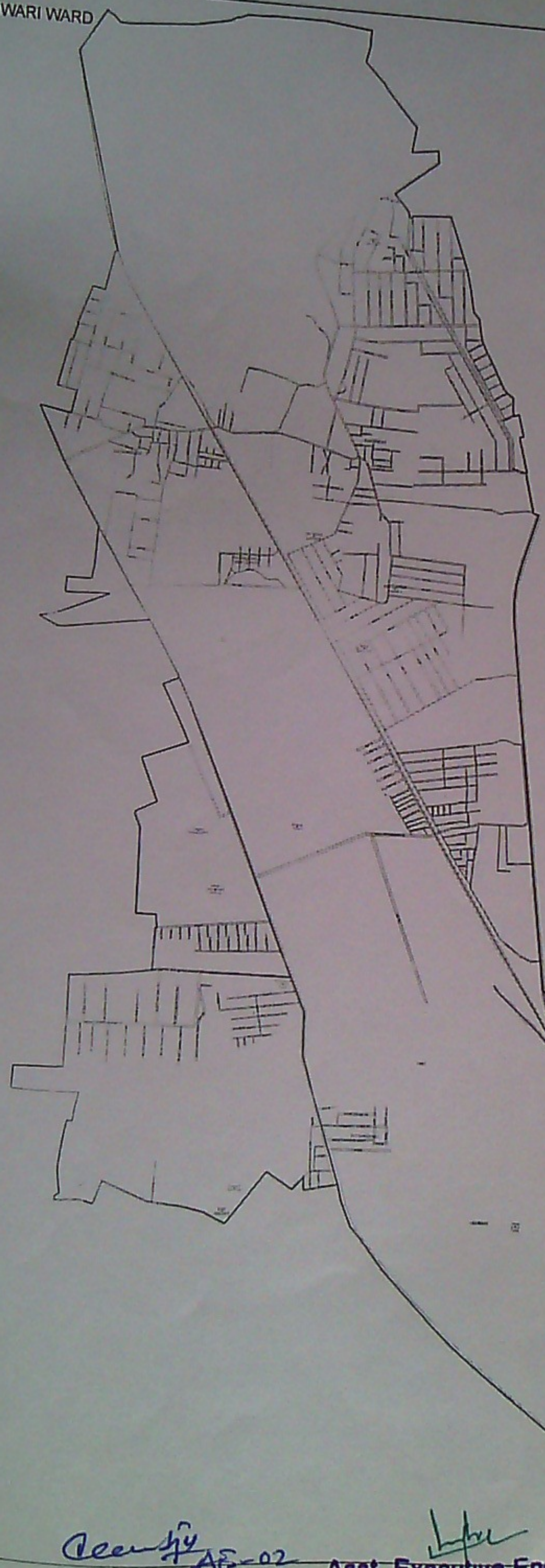
KEY : NOT TO SCALE



Assistant Engineer

Assistant Executive Engineer

YELAHANKA ZONE
WARD 2-CHOWDESHWARI WARD



AE-02

Asst. Executive Engineer